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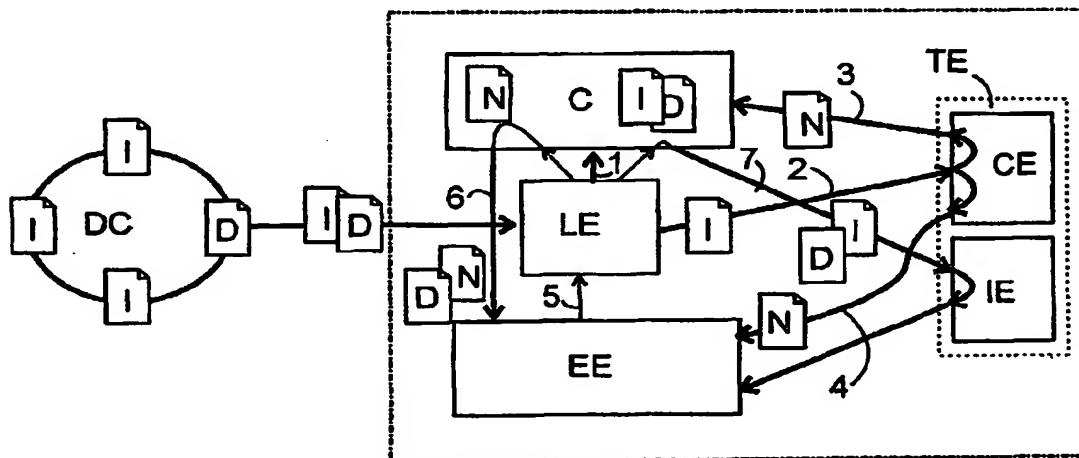
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- (21) International Application Number: **PCT/EP2003/050265** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
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- Declarations under Rule 4.17:**
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designation US*
 - *of inventorship (Rule 4.17(iv)) for US only*

[Continued on next page]

(54) Title: A DATA PROCESSING DEVICE AND METHOD FOR INTERACTIVE TELEVISION



(57) Abstract: A programmable data processing device for a digital TV set-top box comprises: - a loading engine (LE) for receiving portions of code of a first type and/or data from a DSM-CC carousel (DC), - a storage means (C) for storing the portions received by the loading engine, - an execution engine (EE) for executing an application embodied by the received portions; and - a translating engine (TE) for translating the first type code into a native code of the execution engine (EE). The translating engine (TE) is adapted to compile at least a certain one of said received portions into native code and to store the thus compiled portion in the storage means (C), and to interpret other portions of code, and the execution engine (EE) is adapted to process compiled code and interpreted code within a same application.



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04N5/00 H04N7/24 G06F9/455 G06F9/45

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PLEZBERT M P ET AL: "DOES JUST IN TIME = BETTER LATE THAN NEVER?" CONFERENCE RECORD OF POPL '97: 24TH. ACM SIGPLAN-SIGACT SYMPOSIUM ON PRINCIPLES OF PROGRAMMING LANGUAGE. PARIS, JAN. 15 - 17, 1997, CONFERENCE RECORD OF POPL: ACM SIGPLAN-SIGACT SYMPOSIUM ON PRINCIPLES OF PROGRAMMING LANGUAGE, NEW YORK, ACM, US, vol. CONF. 28, 15 January 1997 (1997-01-15), pages 120-131, XP000741815 ISBN: 0-89791-853-3 sections 1-4, pages 120-126</p> <p style="text-align: center;">--- -/--</p>	<p>1,2, 10-14, 16,24-27</p>

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☒ Patent family members are listed in annex.

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

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International Application No
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International Application No
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